IN THE CLAIMS

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A high-speed pattern storing method, which is to tabulate and store pattern data constituting rules, the method comprising:

(a) dividing the pattern data into parts having a defined length or less;

(b) extracting ~~input~~ position sequence information of each divided part of the pattern data; ~~and~~

(c) assigning a characteristic packet ID to each divided part of the pattern data, and tabulating and storing in a table as table information the divided parts of the pattern data and the ~~input~~ position sequence information of each of the ~~corresponding~~ divided parts of the pattern data; and

(d) using the pattern data stored in the table as a look-up device for a specific pattern in a database.

2. (Cancelled)

3. (Currently Amended) The high-speed pattern storing method as claimed in claim 1, wherein ~~space information of~~ the ~~corresponding~~ pattern data ~~is included~~ includes space information which is used to process meta characters.

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4. (Cancelled) .

5. (Currently Amended) The high-speed pattern storing method as claimed in claim 1, wherein the step (c) includes storing, in a separate table, and multiplexing the pattern data stored in the ~~corresponding~~ table, the ~~input~~ position sequence of the ~~corresponding~~ pattern data, or of the pattern data subsequent to and different from the ~~corresponding~~ pattern data.

6. (Currently Amended) The high-speed pattern storing method as claimed in claim 1, wherein pattern data having the same divided part of ~~the~~ a last sequence are stored to make the divided part of the pattern data of the last sequence have ~~the~~ a same position information.

7. (Currently Amended) The high-speed pattern storing method as claimed in claim 1, wherein in the step (c), information representing that the ~~corresponding~~ pattern data is the pattern data of ~~the~~ a last sequence is included in the ~~input~~ position sequence information when the divided part of the pattern data is at ~~the~~ a last position.

8. (Currently Amended) The high-speed pattern storing method as claimed in claim 1, wherein the pattern data are stored in a hash table, and a hash value of each divided part of the pattern data, and sequence information of the ~~corresponding~~ divided part of the pattern data ~~and word connection information~~ are stored.

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)